	· ·	
	Application No.	Applicant(s)
Notice of Allowability	09/771,743	YAMAGATA ET AL.
	Examiner	Art Unit
	Sudhanshu C. Pathak	2634
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in t 5) or other appropriate commun RIGHTS. This application is su	his application. If not included ication will be mailed in due course. THIS
1. This communication is responsive to <u>July 7th, 2005</u> .		
2. X The allowed claim(s) is/are <u>3-6, 9-12, 15-18 & 21-24 and</u>	re-numbered as claims 1-16 re	spectively .
3. \boxtimes The drawings filed on <u>November 15th, 2004</u> are accepted	by the Examiner.	
4. ☑ Acknowledgment is made of a claim for foreign priority of a) ☑ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority of the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: ☐ Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submit NFORMAL PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submit of the priority of the priority of the priority documents have a content of the priority of the priority documents have a content of the priority of	ve been received. ve been received in Application ocuments have been received " of this communication to file a MENT of this application. mitted. Note the attached EXAM ves reason(s) why the oath or communication.	No In this national stage application from the reply complying with the requirements
(a) ☐ including changes required by the Notice of Draftspe.		PTO-948) attached
1) hereto or 2) to Paper No./Mail Date	~	
(b) ☐ including changes required by the attached Examine Paper No./Mail Date		n the Office action of
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the the header according to 37 CFR	drawings in the front (not the back) of 1.121(d).
 DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT 	OSIT OF BIOLOGICAL MATER FOR THE DEPOSIT OF BIOL	RIAL must be submitted. Note the OGICAL MATERIAL.
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date	6. ⊠ Interview Sun Paper No./M	rmal Patent Application (PTO-152) nmary (PTO-413), ail Date mendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit		tatement of Reasons for Allowance
of Biological Material	9.	
•		

Application/Control Number: 09/771,743

Art Unit: 2634

DETAILED ACTION

- 1. Claims 3-6, 9-12, 15-18 & 21-24 are pending in the application.
- 2. Claims 1-2, 7-8, 13-14 & 19-20 have been canceled.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Thomas F. Presson on July 14th, 2005.

- In order to avoid a 112 2nd, Paragraph rejection the claims have been amended as follows:
 - In claim 3, line 8, remove "the large or small relationship and".
 - > In claim 5, line 10, remove "the large or small relationship and".
 - > In claim 9, line 16, remove "sizes and".
 - > In claim 11, line 19, remove "the large or small relationship and".
 - > In claim 15, line 5, remove "sizes and".
 - > In claim 17, lines 10-11, remove "the large or small relationship and".
 - ➤ <u>In claim 21, lines 5-6</u>, **remove** "the large or small relationship and".
 - ▶ In claim 23, lines 10-11, remove "large or small relationship and".

Application/Control Number: 09/771,743 Page 3

Art Unit: 2634

Allowable Subject Matter

4. Claims 3-6, 9-12, 15-18 & 21-24 and re-numbered as claims 1-16 respectively are allowable over the prior art of record because the cited references do not contain the specified limitation of a timing error detection circuit for detecting a timing error of symbols arranged at a predetermined symbol cycle "T" included in a signal, comprising: a sampling circuit for sampling said signal at a frequency equal to four times of a symbol rate; an amplitude detection circuit for detecting an amplitude at said sampled position in said signal; and a detection circuit for detecting a direction and amount of said timing error based on the difference of said detected amplitude at time "T/4" and the detected amplitude at time "3/T/4" when assuming a symbol appears at times "0" and "T".

Conclusion

- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sudhanshu C. Pathak whose telephone number is (571)-272-3038. The examiner can normally be reached on M-F: 9am-6pm.
 - If attempts to reach the examiner by telephone are unsuccessful, the
 examiner's supervisor, Stephen Chin can be reached on (571)-272-3056
 - The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/771,743

Art Unit: 2634

Page 4

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sudhanshu C. Pathak

STEPHEN CHIN SUPERVISORY PATENT EXAMINE TECHNOLOGY CENTER 2800